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CONFIRMATION NO. ATTORNEY DOCKET NO. FIRST NAMED INVENTOR 6336 FILING DATE 4012-113DIV1 APPLICATION NO. NNOCHIRI N. EKWURIBE 10/29/1999 **EXAMINER** 09/429,798 BRUMBACK, BRENDA G 10/02/2003 7590 J MICHAEL STRICKLAND PAPER NUMBER ART UNIT MYERS BIGEL SIBLEY & SAJOVEC 1654 P.O. OFFICE BOX 37428 RALEIGH, NC 27627

DATE MAILED: 10/02/2003



Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/429,798	EKWURIBE ET AL.
	Examiner	Art Unit
	Maury Audet	1654
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet w	vith the correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a y within the statutory minimum of this will apply and will expire SIX (6) MOI	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this communication.
1) Responsive to communication(s) filed on	·	
	is action is non-final.	
Since this application is in condition for allowated closed in accordance with the practice under Laplace in accordance with the practice under Laplace in accordance. Sisposition of Claims	nce except for formal ma	tters, prosecution as to the merits is D. 11, 453 O.G. 213.
4) Claim(s) 1-63 is/are pending in the application.		
4a) Of the above claim(s) is/are withdraw	vn from consideration.	
5) Claim(s) is/are allowed.		
6)☐ Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8)⊠ Claim(s) <u>1-63</u> are subject to restriction and/or elements	lection requirement.	
9) The specification is objected to by the Examiner.		
10) The drawing(s) filed on is/are: a) accept		ne Examiner
Applicant may not request that any objection to the		
11) The proposed drawing correction filed on	is: a) ☐ approved b) ☐ d	isapproved by the Examiner
If approved, corrected drawings are required in repl		The state of the continuor.
12) The oath or declaration is objected to by the Exa		
riority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	5 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:	•	
1. Certified copies of the priority documents	have been received.	
2. Certified copies of the priority documents		oplication No
3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list of	y documents have been r	received in this National Stage
14) Acknowledgment is made of a claim for domestic	priority under 35 H.S.C. 8	\$ 119(e) (to a province of smaller (i.e.)
a) The translation of the foreign language provi	isional annlication has be	en received
15) Acknowledgment is made of a claim for domestic	priority under 35 U.S.C.	§§ 120 and/or 121.
achment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview So	ummary (PTO-413) Paper No(s)
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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-22, 24-35, 37-45, 47-52, and 54-63 drawn to amphiphilic drug-oligomer conjugates of various formulas, classified in class 530, subclass 402.

Please note: Claims 16, 17, 24-35, and 54-61 are method claims that improperly depend from composition claims in Group 1. For purposes of restriction, these claims have been considered to be composition claims. Clarification and correction are required.

- II. Claim 23, drawn to a method of activating a receptor comprising contacting the receptor with an amphiphilic drug-oligomer conjugate, classified in class 424, subclass 1.69.
- III. Claim 36, drawn to a method for delivering a therapeutic compound across the blood brain barrier comprising administering an amphiphilic drug-oligomer conjugate, classified in class 424, subclass 1.69.
- IV. Claim 46, drawn to a method for inducing analgesia in a subject comprising administering an amphiphilic drug-oligomer conjugate, classified in class 424, subclass 1.69.
- V. Claim 53, drawn to a method for altering the binding affinity of a peptide to its receptor, subject comprising conjugating the peptide to an amphiphilic-oligomer classified in class 436, subclass 501, for example.

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The inventions of Groups I-V do not contain a distinguishable core structure that runs through the respective compounds claimed; therefore, an individual structure and/or sequence search is required for each individual compound. As part of the election of a single invention of any of Groups I-V for examination on the merits, Applicant is required to elect either

one specific therapeutic compound from those listed in claims 5-7, 38-39, or 62 and one specific oligomer formula from those listed in claims 15, 18, or 51 -or-

one specific amphiphilic oligomer-enkephalin conjugate from those listed in claims 20-22 or 52, for examination on the merits.

This requirement is not to be taken as an election of species, but rather as an election of a single invention, since each compound is assumed to be a patentably distinct invention, in the absence of evidence to the contrary.

The inventions are distinct, each from the other because of the following reasons:

Groups I and II-V are related as products and processes of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the conjugates of Group I can be used in the materially different processes of diagnostic testing and affinity purification of antibodies.

The specific compounds in Groups I-V are not disclosed as capable of use together and have different modes of operation, different functions, and different effects.

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Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification or have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper. Further, search and examination of all of the separate compounds is not overlapping and would constitute a serious burden upon the examiner.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brenda Brumback whose telephone number is (703) 306-3220. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196. Papers related to this application may be submitted to Group 1600 by facsimile transmission. Papers should be marked "OFFICIAL" for entry into prosecution history or "DRAFT" for consideration by the examiner without entry. The Official FAX telephone number is (703) 872-9306. FAX machines will be available to receive transmissions 24 hours a day. In compliance with 1096 OG 30, the filing date accorded to each OFFICIAL fax transmission will be determined by the FAX machine's stamped date found on the last page of the transmission, unless that date is a Saturday, Sunday or Federal Holiday with the District of Columbia, in which case the OFFICIAL date of receipt will be the next business day.

BB October 1

October 1, 2003

Brenda Brumback

freede trumlack

Supervisory Patent Examiner

Technology Center 1600